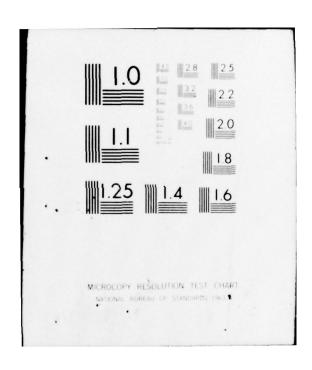
MINNESOTA UNIV MINNEAPOLIS
THE STUDY OF DISTRIBUTIVE PARAMETER SYSTEMS FOR FLIGHT CONTROL. (U)
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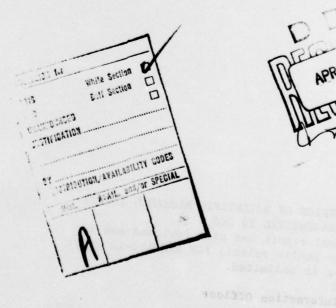
The Study of Distributive Parameter Systems

for Flight Control

under

AFOSR Grant 72-2243

Principal Investigator: E. B. Lee
March 1977



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The research conducted was directed toward the development of controller synthesis and analysis techniques for systems with many degrees of freedom. The research results are documented in the published papers, reports and Ph.D. theses of the project (the lists of which follows):

Ph.D. Theses

- D. K. Scharmack, "Optimal Empty Vehicle Shuttling in Demand Activated Urban Transporation Systems", Ph.D. Thesis, University of Minnesota, June 1972.
- 2. R. Triggiani, "Controllability, Observability and Stabilizability of Dynamical Systems in Banach Space with Bounded Operators", Ph.D. Thesis, University of Minnesota, December 1972.
- L. Verhavert, "In-Flight Thrust Vector Control", Ph.D. Thesis, University of Minnesota, December 1974.
- 4. S. Yang, "Low Sensitivity Design of Optimal Feed-back Systems for Longitudinal Control of Automated Transit Vehicles", Ph.D. Thesis, University of Minnesota, December 1974 (coadvisor W. Garrard).

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- H. N. Koivo and E. B. Lee, "Controller Synthesis for Linear Systems with Retarded State and Control Variables and Quadratic Cost", Automatica, Vol. 8, 203-208 (1972).
- 2. (Book) E. B. Lee and L. Markus, "Optimal Control Theory Foundations", Hayka, Moscow (1972).
- 3. E. B. Lee, "Feedback Controllers for Linear Time Delay Systems", Proceedings Symp. on Differential Delay and Functional Equations; Control and Stability, U. of Warwick, Coventry, England, 9-11 (1972).
- 4. E. B. Lee and D. A. Spyker, "On Linear Periodic Control Problems", IEEE Trans. on Auto. Control, Vol. AC-18, 39-41 (1973).
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- M. Delfour, E. B. Lee and A. Manitius, "F-Reduction of the Operator Riccati Equations for Hereditary Differential Systems", Proceedings 2nd Symposium of Control of Distributed Parameter Systems, Coventry, 1977.

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